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Steven I. Weisburd Ostrolenk, Faber, Gerb & Soffen 1180 Avenue of the Americas			EXAMINER	
			AN, SHAWN S	
New York, NY 10036-8403			ART UNIT	PAPER NUMBER
		•	2613	
			DATE MAILED: 01/16/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.

Applicant(s) 09/496,983

Mitsunobu Ono et al.

Examiner

Office Action Summary

Shawn An

Art Unit 2613



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on *Nov 6, 2002* 2a) This action is **FINAL**. 2b) \ This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims 4) X Claim(s) 1-13 ______is/are pending in the application. 4a) Of the above, claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) 💢 Claim(s) <u>1-13</u> is/are rejected. 7) Claim(s) ____ is/are objected to. 8) Claims ____ are subject to restriction and/or election requirement. **Application Papers** 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) \square Some* c) \square None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). a) The translation of the foreign language provisional application has been received. 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). 6) Other:

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DETAILED ACTION

Response to Remarks

1. Applicant's arguments with respect to Eino reference has been considered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3, 5-7, 9-11, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al (5,627,583) in view of Saito et al (5,604,530).

Regarding claims 1 and 5, Nakamura et al discloses an endoscope apparatus, comprising:

- a first drive signal generator (CCD driver) for generating a drive signal for driving an imaging device (Fig. 1(a), 11) removably connected to an endoscope (Fig. 8, 82);
- a video signal extracting portion (CDS circuit) for obtaining a first video signal included in an imaging signal obtained in the imaging device (Fig. 8, 84);
- a second drive signal generator (SSG) for generating a second drive signal for controlling a timing when the video extracting portion obtains the first video signal (Fig. 8, 77);
- a first processor (video processor) for storing at least part of a circuit for obtaining a second video signal that can be displayed on a monitor (Fig. 8, 71 FPGA(1)); and
- a delay circuit (91) for delaying at least part of signals among signals after video processing as specified.

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Nakamura's delay circuit is <u>not</u> stored in the first processor, and included in the first and the second drive signals.

However, Saito et al teaches a delay circuit, a second processor for setting a delay time, (Fig. 17, 131), which is stored in a camera control unit (54), for possible delaying at least part of signals among signals included in a first drive signals (56) and a second drive signals (97) as also specified.

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing an endoscope apparatus as taught by Nakamura et al to incorporate the delay circuit as taught by Saito et al such that the delay circuit is stored in the first processor of Nakamura's, and included in the first and the second drive signals for delaying at least part of signals among signals in order to correct signal line delay and ultimately reducing many additional components associated with time delaying.

Regarding claim 2, DSP is an electronic component that is well known in the art.

Regarding claim 3, a delay circuit varying in its delay time, such as in a remote/manual/set controlled delay, is well known in the art.

Regarding claims 6 and 7, setting a timer or an user manually specifying delay time on a conventional switches is well known in the art. Therefore, it is considered an obvious variation to specify delay time or to set information which the delay time can be derived, so that the second processor are able to set the delay time depending on the condition of the switch for correction of the line delay.

Regarding claims 9 and 13, Nakamura discloses a control CPU (Fig. 6, 56) for identifying the type of endoscopes. Therefore, it would have been obvious to combine Nakamura's teaching with Saito et al's delay circuit so that the delay time can be derived including identification information as an effective way to measure precise delay time in order to correct signal line delay.

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Regarding claims 10 and 11, an information acknowledgment portion, such as a typical confirmation signal, are considered an obvious feature, so that the second processor sets the delay time depending on information acknowledged from the information acknowledgment portion.

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et and Saito et al as applied to claim 3 above, and further in view of Pasqualini (6,397,374 B1).

Regarding claim 4, the combination of Nakamura et and Saito et al fails to disclose the delay circuit comprising a multistage buffer circuit connected in series, and a circuit for selecting the number of stages of the buffer circuit.

However, Pasqualini teaches conventionally well known delay circuit comprising a multistage buffer circuit connected in series (Fig. 6), and a circuit for selecting the number of stages of the buffer circuit (col. 8, lines 52-67) in order to vary the delay timing.

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing an endoscope apparatus as taught by Nakamura et al to incorporate the teaching of the delay circuit comprising a multistage buffer circuit connected in series, and the circuit for selecting the number of stages of the buffer circuit as taught by Pasqualini et al as an effective way to vary the delay time in order to correct signal line delay more accurately.

5. Claims 8 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et and Saito et al as applied to claims 7 and 11 above, respectively, and further in view of Yabe et al (4,845,555).

Regarding claims 8 and 12, the combination of Nakamura et and Saito et al does not particularly disclose delay time being derived from information indicating length of an insert portion of the endoscope.

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However, Yabe et al teaches delay time being derived from information indicating length of an insert portion of the endoscope (col. 8, lines 51-55) as an effective way to measure precise delay time in order to correct signal line delay.

Therefore, it would have been obvious to a person of ordinary skill in the relevant art employing an endoscope apparatus as taught by Nakamura et al to incorporate the teaching of delay time being derived from information indicating length of an insert portion of the endoscope as taught by Yabe et al as an effective way to measure precise delay time in order to correct signal line delay.

Conclusion

- 6. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawn An whose telephone number (703) 305-0099 and schedule are Tuesday-Friday (Monday off).

PATENT EXAM

SSA

January 10, 2003